

IMAGE RESAMPLING USING VARIABLE QUANTIZATION BINS

Abstract

An approach to resampling a first image that is sampled on a first sample grid. A filter for applying to the first image is computed. This involves computing a spatially quantized representation of the filter for which a degree of spatial quantization of the filter depends on factors including a measure of scale relating the first sample grid and a desired sample grid. The measure of scale can be computed based on a geometric transformation relating the first sample grid and the desired sample. The filter can be computed by selecting the number of spatial samples of the spatially quantized representation of the filter.